

TYPE APPROVAL CERTIFICATE

DNV-GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No.	21 081 - 04 HH
Company	Schneider Electric Automation GmbH Schneiderplaz 1 97828 Marktheidenfeld, GERMANY
Product Description	Programmable Logic Controller
Type	Twido-TWD / TM2 Series
Environmental Category	C, EMC1
Technical Data / Range of Application	CPU Module All-In-One Type: TWD LCAA 10DRF, -16DRF, -24DRF: AC type, analogue inputs, relay outputs TWD LCDA 10DRF, -16DRF, -24DRF: DC type, analogue inputs, relay outputs CPU Module Slim Type: TWD LMDA 20DRT1, -20DRT, -20DUK, -20DTK, -40DUK, -40DTK: DC type, analogue inputs, transistor sink/source outputs, relay outputs Expansion Digital Input Module: TWD DDI or TM2 DDI -8DT, -16DT, -16DK, -32DK : 24V DC inputs Expansion Digital Output Module: TWD DRA or TM2 DRA -8RT, -16RT: relay outputs TWD DDO or TM2 DDO -8UT, -8TT, -16UK, -16TK, -32UK, -32TK: transistor outputs Expansion Digital Input/Output (Mixed) Module: TWD DMM or TM2 DMM -8DRT, -24DRF: 24V DC inputs, relay outputs Expansion Analogue Input/Output Module: TWD or TM2 -AMM 3HT, -ALM 3LT, -AMI 2HT, -AMO 1HT: analogue voltage/current
Test Standard	Guidelines for the Performance of Type Approvals VI-7-2 Edition 2012; Regulations for the Use of Computers and Computer Systems
Documents	Test Reports: No. 02/10016 dated 10-04-2002, No. 04/1008 dated 24-02-2004 EMC Test Report dated 25-11-2002 and 16-05-2003; A-PEX Test Reports; TüV Cert. No. B001213332427; Technical Data Sheets; Circuit Diagrams; Part Lists; User's Manual EM; GL File TA. 70.70 2011004
Remarks	Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Valid until **2021-05-18**
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Hamburg, 2016-05-19

Type Approval Symbol



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Communication Module:

TWD NOZ 232D: RS232C DIN Terminal Type
TWD NOZ 485D: RS485 DIN Terminal Type
TWD NOZ 485T: RS485 Screw Terminal Type

Option Module:

TWD NAC 232D, -485D, -485T: RS232/RS485 Communication Adapter
TWD XCP RTC: Clock Cartridge
TWD XCP MFK32, -MFK64: Memory Cartridge
TWD XCP ODC: HMI Module with Small Display
TWD XCP ODM: Adapter for Small Display

Electrical data:

Power supply: 100-240V AC 50/60 Hz: Slim Type CPU/Modules
24V DC: All-in-One Type Modules
Input digital type: 24V DC (Sink/Source)
Input analogue type: Voltage (0-10V DC), Current (4-20mA), Thermocouple,
Resistance thermometer
Output relay type: 240V AC / 30V DC, 2A
Output transistor type: 0.1A output modules with 16/32 points
0.3A CPUs and all other modules
Output analogue type: Voltage (0-10V DC), Current (4-20mA)

Degree of protection: IP20

Requirement class: 3

Software (Firmware) version: 2.0x

Additional Documents:

EMC Test Report No. E65732-1 (01-02-2008), EMC Test Report No. E65732-2 (15-02-2008)
EMC Test Report No. E67779-1 (09-04-2008), EMC Test Report No. E67779-2 (25-04-2008)
Environmental Test Reports: No. 2008 0818JC (18-08-2008) and No. 2008 1016JC (16-10-2008)

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